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1      /SUBROUTINE USU TO SET INITIAL ASSIGNMENTS (MODE SET NEGATIVE)
2      / AND TO CHANGE ASSIGNMENTS. ALSO SETS STATUS BITS FOR ALL ROUTES
3      /TO 1 (INVALID) IF NEW ASSIGNMENTS REQUIRE THIS
4      /CALL ASSET(CODE,WSID1,WSID2,HDIAM,TRAK(1),MODE,ROUTES(1),EOROUT)
5      .GLOBL ASSET,.DA
6      SLOT=4 /MODIFIED 750226 HB
7      ASSET 0
8      00000 R 000000 A      JMS* .DA /GET ARGS
9      00002 R 600013 R      JMP .+1+10
10     00003 R 000000 A      CODE 0 /CHARACTER CODE
11     00004 R 000000 A      WSID1 0 /SIDE 1 DIAM
12     00005 R 000000 A      WSID2 0 /SIDE 2 DIAM
13     00006 R 000000 A      HDIAM 0 /HOLE DIAM
14     00007 R 000000 A      ARAD 0 /TRACK ARRAY START ADDRESS
15     00010 R 000000 A      MODE 0 / NEGATIVE FOR SET UP, 0 TRACK ASSIGN, 1 PAD ASSIGN
16     00011 R 000000 A      ROUTAD 0 /ROUTES(1) ADDRESS
17     00012 R 000000 A      EORAD 0 /END OF ROUTES
18     00013 R 220010 R      LAC* MODE
19     00014 R 740100 A      SMA /SET UP CALL TO COPY ASSIGNMENTS TO ARRAYS IN COMMON
20     00015 R 600032 R      JMP NOSET
21     00016 R 201165 R      LAC (TRK-1
22     00017 R 061166 R      DAC* (10 /FOR COPY LOOP
23     00020 R 200007 R      LAC ARAD
24     00021 R 723777 A      AAC -1
25     00022 R 061167 R      DAC* (11 /FOR COPY LOOP
26     00023 R 777567 A      LAW -211
27     00024 R 040130 R      DAC CNTR /NO. OF WORDS TO BE COPIED
28     00025 R 220010 A      LOOP LAC* 10
29     00026 R 060011 A      DAC* 11
30     00027 R 440130 R      ISZ CNTR
31     00030 R 600025 R      JMP LOOP /COPY LOOP
32     00031 R 620000 R      JMP* ASSET /EXIT AFTER SETUP
33     00032 R 740200 A      NOSET SZA /TRACK ASSIGNMENT
34     00033 R 600050 R      JMP PADAS /PAD ASSIGNMENT
35     00034 R 200007 R      LAC ARAD
36     00035 R 360003 R      TAD* CODE
37     00036 R 040131 R      DAC ADDR /ADDRESS FOR TRACK REASSIGNMENT
38     00037 R 220131 R      LAC* ADDR /OLD TRACK WIDTH
39     00040 R 040132 R      DAC OLSIZ1
40     00041 R 220004 R      LAC* WSID1
41     00042 R 060131 R      DAC* ADDR /WRITE IN NEW WIDTH
42     00043 R 740031 A      TCA
43     00044 R 340132 R      TAD OLSIZ1
44     00045 R 740100 A      SMA /NEW>OLD
45     00046 R 620000 R      JMP* ASSET /EXIT
46     00047 R 600106 R      JMP SETST /SET ALL STATUS BITS FOR INVALID CONDITION
47     00050 R 220003 R      PADAS LAC* CODE
48     00051 R 744010 A      RCL /*2
49     00052 R 340007 R      TAD ARAD
50     00053 R 723011 A      AAC 11 /ADDRESS FOR PAD ASSIGNMENT
51     00054 R 040131 R      DAC ADDR
52     00055 R 220131 R      LAC* ADDR
53     00056 R 501170 R      AND (777

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54 00057 R 040132 R DAC OLSIZ1 /OLD SIDE 1 DIAM
55 00060 R 220131 R LAC* ADDR
56 00061 R 742030 A SWHA
57 00062 R 501170 R AND (777
58 00063 R 040133 R DAC OLSIZ2 /OLD SIDE 2 DIAM
59 00064 R 220005 R LAC* WSID2
60 00065 R 742030 A SWHA
61 00066 R 360004 R TAD* WSID1
62 00067 R 060131 R DAC* ADDR /NEW SIZES WRITTEN IN
63 00070 R 440131 R ISZ ADDR
64 00071 R 220006 R LAC* HDIAM
65 00072 R 060131 R DAC* ADDR /NEW HOLE SIZE WRITTEN IN
66 00073 R 220004 R LAC* WSID1
67 00074 R 740031 A TCA
68 00075 R 340132 R TAD OLSIZ1
69 00076 R 740100 A SMA /LARGER PAD ASSIGNMENT
70 00077 R 741000 A SKP
71 00100 R 600106 R JMP SETST /SET ALL ROUTES INVALID
72 00101 R 220005 R LAC* WSID2
73 00102 R 740031 A TCA
74 00103 R 340133 R TAD OLSIZ2
75 00104 R 740100 A SMA /LARGER PAD ASSIGNMENT
76 00105 R 620000 R JMP* ASSET /EXIT
77 00106 R 200011 R SETST LAC ROUTAD
78 00107 R 041155 R DAC RTPT# /SCANNING POINTER
79 00110 R 723777 A AAC -1
80 00111 R 360012 R TAD* EORAD
81 00112 R 041152 R DAC ENDRT# /POINTER TO END OF ROUTES
82 00113 R 750000 A CLA
83 00114 R 341155 R ROOTLP TAD RTPT /STEP TO START OF NEXT ROOT
84 00115 R 541152 R SAD ENDRT
85 00116 R 620000 R JMP* ASSET /ALLROOTS DONE
86 00117 R 041155 R DAC RTPT /TO FIRST WORD OF ROUTE
87 00120 R 221155 R LAC* RTPT
88 00121 R 501171 R AND (177777
89 00122 R 061155 R DAC* RTPT /STATUS BIT SET TO 0 (INVALID).
90 00123 R 441155 R ISZ RTPT /TO SECOND WORD OF ROUTE
91 00124 R 221155 R LAC* RTPT
92 00125 R 660512 A LRSS 12
93 00126 R 723777 A AAC -1 /NO. OF WORDS - 1
94 00127 R 600114 R JMP ROOTLP
95 00130 R 000000 A CNTR 0 /COUNTER FOR COPY LOOP
96 00131 R 000000 A ADDR 0 /ADDRESS FOR CHANGES
97 00132 R 000000 A OLSIZ1 0 /OLD SIDE 1 DIAM
98 00133 R 000000 A OLSIZ2 0 /OLD SIDE 2 DIAM
99 .DEC
100 /STANDARD ASSIGNMENTS FOR TRACK WIDTHS ETC.
101 /UPDATED 750217 HB
102 00134 R 000062 A TRK 50 /COPPER SPOT DIAM
103 00135 R 000010 A 8 /TYPE 1 TRACK WIDTH
104 00136 R 000020 A 16 /TYPE 2
105 00137 R 000014 A 12 /TYPE 3
106 00140 R 000024 A 20 /TYPE 4

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PAGE	3	ASSET	SRC
107		00141 R 000036 A	30 /TYPE 5
108		00142 R 000062 A	50 /TYPE 6
109		00143 R 000144 A	100 /TYPE 7
110		00144 R 000036 A	30 /SPACE*2
111			/PAD ASSIGNMENT TABLE
112			/TYPES 1 TO 30 INCLUSIVE ARE FOR NORMAL PADS. TWO WORDS ARE USED
113			/FOR EACH TYPE: THE FIRST CONTAINS THE SIDE 1 AND SIDE 2 DIAMETERS
114			/PACKED 9,9, THE SECOND CONTAINS THE HOLE DIAMETER.
115			/TYPE 0 IS USED FOR THE P.T. HOLE ASSIGNMENT.
116			/FIRST HOLE*512+SECOND HOLE
117		00145 R 067067 A	PDS 28215 /PT HOLE DIAMS
118		00146 R 000037 A	31 /PT DRILLED HOLE DIAM
119		00147 R 000000 A	0 /TYPE 1 PAD DIAMS
120		00150 R 000000 A	0 /TYPE 1 PAD HOLE DIAM
121		00151 R 061061 A	25137 /TYPE 2
122		00152 R 000037 A	31
123		00153 R 062062 A	25650 /TYPE 3
124		00154 R 000037 A	31
125		00155 R 077077 A	32319 /TYPE 4
126		00156 R 000037 A	31
127		00157 R 077077 A	32319 /TYPE 5
128		00160 R 000047 A	39
129		00161 R 117117 A	40527 /TYPE 6
130		00162 R 000047 A	39
131		00163 R 117117 A	40527 /TYPE 7
132		00164 R 000053 A	43
133		00165 R 117117 A	40527 /TYPE 8
134		00166 R 000057 A	47
135		00167 R 117117 A	40527 /TYPE 9
136		00170 R 000063 A	51
137		00171 R 145145 A	51813 /TYPE 10
138		00172 R 000047 A	39
139		00173 R 145145 A	51813 /TYPE 11
140		00174 R 000053 A	43
141		00175 R 145145 A	51813 /TYPE 12
142		00176 R 000057 A	47
143		00177 R 145145 A	51813 /TYPE 13
144		00200 R 000063 A	51
145		00201 R 145145 A	51813 /TYPE 14
146		00202 R 000073 A	59
147		00203 R 000000 A	0 /TYPE 15
148		00204 R 000000 A	0
149		00205 R 226226 A	76950 /TYPE 16
150		00206 R 000057 A	47
151		00207 R 226226 A	76950 /TYPE 17
152		00210 R 000063 A	51
153		00211 R 226226 A	76950 /TYPE 18
154		00212 R 000073 A	59
155		00213 R 226226 A	76950 /TYPE 19
156		00214 R 000117 A	79
157		00215 R 226226 A	76950 /TYPE 20
158		00216 R 000166 A	118
159		00217 R 310310 A	102600 /TYPE 21

160	00220 R 000235 A	157
161	00221 R 113113 A	38475 /TYPE 22
162	00222 R 000037 A	31
163	00223 R 000000 A	0 /TYPE 23
164	00224 R 000000 A	0
165	00225 R 030030 A	12312 /TYPE 24
166	00226 R 000000 A	0
167	00227 R 060060 A	24624 /TYPE 25
168	00230 R 000037 A	31
169	00231 R 062062 A	25650 /TYPE 26
170	00232 R 000037 A	31
171	00233 R 062062 A	25650 /TYPE 27
172	00234 R 000047 A	39
173	00235 R 000000 A	0 /TYPE 28
174	00236 R 000000 A	0
175	00237 R 000000 A	0 /TYPE 29
176	00240 R 000000 A	0
177	00241 R 012012 A	5130 /TYPE 30
178	00242 R 000000 A	0
179		/TYPES 31 TO 40 ARE USED FOR EDGE CONNECTOR PADS. TWO ARE USED FOR
180		/EACH TYPE: THE FIRST CONTAINS THE DIAMETER OF THE CHARACTER TO
181		/BE USED, THE SECOND THE MOVEMENT.
182	00243 R 062062 A	25650 /TYPE 31 PAD DIAM
183	00244 R 000530 A	344 /TYPE 31 PAD MOVE
184	00245 R 000000 A	0 /TYPE 32
185	00246 R 000000 A	0
186	00247 R 000000 A	0 /TYPE 33
187	00250 R 000000 A	0
188	00251 R 144144 A	51300 /TYPE 34
189	00252 R 000446 A	294
190	00253 R 036036 A	15390 /TYPE 35
191	00254 R 001015 A	525
192	00255 R 036036 A	15390 /TYPE 36
193	00256 R 001060 A	560
194	00257 R 000000 A	0 /TYPE 37
195	00260 R 000000 A	0
196	00261 R 000000 A	0 /TYPE 38
197	00262 R 000000 A	0
198	00263 R 000000 A	0 /TYPE 39
199	00264 R 000000 A	0
200	00265 R 000000 A	0 /TYPE 40
201	00266 R 000000 A	0
202		/THE REST OF THE TABLE IS USED FOR HOLE SIZE ASSIGNMENTS. TWO
203		/WORDS ARE USED PER HOLE: THE FIRST IS ZERO, THE SECOND CONTAINS
204		/THE HOLE DIAM.
205	00267 R 000000 A	0 /TYPE 41
206	00270 R 000000 A	0
207	00271 R 000000 A	0 /TYPE 42
208	00272 R 000000 A	0
209	00273 R 000000 A	0 /TYPE 43
210	00274 R 000000 A	0
211	00275 R 000000 A	0 /TYPE 44
212	00276 R 000000 A	0

PAGE	5	ASSET	SRC		
213		00277	R 000000 A	0	/TYPE 45
214		00300	R 000000 A	0	
215		00301	R 000000 A	0	/TYPE 46
216		00302	R 000000 A	0	
217		00303	R 000000 A	0	/TYPE 47
218		00304	R 000000 A	0	
219		00305	R 000000 A	0	/TYPE 48
220		00306	R 000000 A	0	
221		00307	R 000000 A	0	/TYPE 49
222		00310	R 000000 A	0	
223		00311	R 000000 A	0	/TYPE 50
224		00312	R 000000 A	0	
225		00313	R 000000 A	0	/TYPE 51
226		00314	R 000000 A	0	
227		00315	R 000000 A	0	/TYPE 52
228		00316	R 000000 A	0	
229		00317	R 000000 A	0	/TYPE 53
230		00320	R 000000 A	0	
231		00321	R 000000 A	0	/TYPE 54
232		00322	R 000000 A	0	
233		00323	R 000000 A	0	/TYPE 55
234		00324	R 000000 A	0	
235		00325	R 000000 A	0	/TYPE 56
236		00326	R 000000 A	0	
237		00327	R 000000 A	0	/TYPE 57
238		00330	R 000000 A	0	
239		00331	R 000000 A	0	/TYPE 58
240		00332	R 000000 A	0	
241		00333	R 000000 A	0	/TYPE 59
242		00334	R 000000 A	0	
243		00335	R 000000 A	0	/TYPE 60
244		00336	R 000000 A	0	
245		00337	R 000000 A	0	/TYPE 61
246		00340	R 000000 A	0	
247		00341	R 000000 A	0	/TYPE 62
248		00342	R 000000 A	0	
249		00343	R 000000 A	0	/TYPE 63
250		00344	R 000000 A	0	
251					.OCT
252					/END OF ASSIGNMNT TABLES

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253 .TITLE LIST
254 .GLOBL LIST
255 00345 R 740040 A LIST XX
256 00346 R 121164 E JMS* .DA
257 00347 R 600352 R JMP .+3
258 00350 R 000000 A TRKAD 0 /TRAKS(1)
259 00351 R 000000 A PADAD 0 /PADS (1)
260 .IFZER SLOT-4 /IF LINE PRINTER OUTPUT REQUIRED
261 .GLOBL LPA.
262 00352 R 201163 E LAC LPA.
263 00353 R 061172 R DAC* (145
264 .ENDC
265 .IFNZR SLOT-4 /NO LP
266 LAC* (137
267 DAC* (145 /ASSIGN TELEPRINTER
268 .ENDC
269 .INIT SLOT,1,0
    00354 R 001004 A *G CAL+1*1000 SLOT&777
    00355 R 000001 A *G 1
    00356 R 000000 A *G 0+0
    00357 R 000000 A *G 0
270 /
271 /
272 /
273 .WRITE SLOT,2,MESS1,34
    00360 R 002004 A *G CAL+2*1000 SLOT&777
    00361 R 000011 A *G 11
    00362 R 000741 R *G MESS1
    *G .DEC
    00363 R 777736 A *G -34
274 .WAIT SLOT
    00364 R 000004 A *G CAL SLOT&777
    00365 R 000012 A *G 12
275 /
276 / COPPER SPOT SIZE
277 /
278 .WRITE SLOT,2,MESS2,34
    00366 R 002004 A *G CAL+2*1000 SLOT&777
    00367 R 000011 A *G 11
    00370 R 000753 R *G MESS2
    *G .DEC
    00371 R 777736 A *G -34
279 .WAIT SLOT
    00372 R 000004 A *G CAL SLOT&777
    00373 R 000012 A *G 12
280 00374 R 100625 R JMS BUFNIT /INITIALISE OUTPUT BUFFER
281 00375 R 201101 R LAC MESBUF
282 00376 R 723010 A AAC 10
283 00377 R 041101 R DAC MESBUF
284 00400 R 220350 R LAC* TRKAD
285 00401 R 100666 R JMS BUFFIL
286 00402 R 100642 R JMS OUTPUT
287 /

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PAGE	7	ASSET	SRC	LIST
288				/ SPA
289				/
290		00403	R 200350 R	LAC TRKAD
291		00404	R 723010 A	AAC 10
292		00405	R 041160 R	DAC SCAN#
293		00406	R 201101 R	LAC MESBUF
294		00407	R 723004 A	AAC 4
295		00410	R 041101 R	DAC MESBUF
296				.WRITE SLOT,2,MESS3,34
		00411	R 002004 A *G	CAL+2*1000 SLOT&777
		00412	R 000011 A *G	11
		00413	R 000765 R *G	MESS3
			*G	.DEC
			*G	-34
297		00414	R 777736 A *G	.WAIT SLOT
		00415	R 000004 A *G	CAL SLOT&777
		00416	R 000012 A *G	12
298		00417	R 221160 R	LAC* SCAN
299		00420	R 744020 A	RCR
300		00421	R 100666 R	JMS BUFFIL
301		00422	R 100642 R	JMS OUTPUT
302				/
303				/ PTHOLE
304				/
305				.WRITE SLOT,2,MESS4,34
		00423	R 002004 A *G	CAL+2*1000 SLOT&777
		00424	R 000011 A *G	11
		00425	R 000773 R *G	MESS4
			*G	.DEC
			*G	-34
306		00426	R 777736 A *G	.WAIT SLOT
		00427	R 000004 A *G	CAL SLOT&777
		00430	R 000012 A *G	12
307		00431	R 201101 R	LAC MESBUF
308		00432	R 723004 A	AAC 4
309		00433	R 041101 R	DAC MESBUF
310		00434	R 220351 R	LAC* PADAD
311		00435	R 501170 R	AND (777
312		00436	R 100666 R	JMS BUFFIL /SIDE1 DIAM
313		00437	R 441101 R	ISZ MESBUF
314		00440	R 441101 R	ISZ MESBUF
315		00441	R 220351 R	LAC* PADAD
316		00442	R 742030 A	SWHA
317		00443	R 501170 R	AND (777 /SIDE2 DIAM
318		00444	R 100666 R	JMS BUFFIL
319		00445	R 440351 R	ISZ PADAD
320		00446	R 441101 R	ISZ MESBUF
321		00447	R 441101 R	ISZ MESBUF
322		00450	R 220351 R	LAC* PADAD /HOLE DIAM
323		00451	R 100666 R	JMS BUFFIL
324		00452	R 100642 R	JMS OUTPUT
325				/
326				/ TRACKS

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327 /
328 .WRITE SLOT,2,MESS5,34
      00453 R 002004 A *G      CAL+2*1000 SLOT&777
      00454 R 000011 A *G      11
      00455 R 001015 R *G      MESS5
      *G      .DEC
      00456 R 777736 A *G      -34
329 .WAIT SLOT
      00457 R 000004 A *G      CAL SLOT&777
      00460 R 000012 A *G      12
330 00461 R 777771 A      LAW -7
331 00462 R 041151 R      DAC COUNT#
332 00463 R 141154 R      DZM NUMBA#
333 00464 R 200350 R      LAC TRKAD
334 00465 R 061167 R      DAC* (11
335 00466 R 441154 R      LOOP1 ISZ NUMBA
336 00467 R 441101 R      ISZ MESBUF
337 00470 R 441101 R      ISZ MESBUF
338 00471 R 201154 R      LAC NUMBA
339 00472 R 100666 R      JMS BUFFIL /CODE
340 00473 R 441101 R      ISZ MESBUF
341 00474 R 441101 R      ISZ MESBUF
342 00475 R 220011 A      LAC* 11
343 00476 R 100666 R      JMS BUFFIL /WIDTH
344 00477 R 100642 R      JMS OUTPUT
345 00500 R 441151 R      ISZ COUNT
346 00501 R 600466 R      JMP LOOP1
347 /
348 / PADS
349 /
350 .WRITE SLOT,2,MESS6,34
      00502 R 002004 A *G      CAL+2*1000 SLOT&777
      00503 R 000011 A *G      11
      00504 R 001027 R *G      MESS6
      *G      .DEC
      00505 R 777736 A *G      -34
351 .WAIT SLOT
      00506 R 000004 A *G      CAL SLOT&777
      00507 R 000012 A *G      12
352 00510 R 777742 A      LAW -36
353 00511 R 041151 R      DAC COUNT
354 00512 R 200351 R      LAC PADAD
355 00513 R 061167 R      DAC* (11
356 00514 R 141154 R      DZM NUMBA
357 00515 R 441154 R      LOOP2 ISZ NUMBA
358 00516 R 441101 R      ISZ MESBUF
359 00517 R 441101 R      ISZ MESBUF
360 00520 R 201154 R      LAC NUMBA /CODE
361 00521 R 100666 R      JMS BUFFIL
362 00522 R 220011 A      LAC* 11
363 00523 R 041157 R      DAC SAVE1
364 00524 R 501170 R      AND (777 /SIDE1 DIAM
365 00525 R 100666 R      JMS BUFFIL

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PAGE	9	ASSET	SRC	LIST
366		00526	R 201157	R LAC W /E1#
367		00527	R 441101	R ISZ MESBUF
368		00530	R 441101	R ISZ MESBUF
369		00531	R 742030	A SWHA
370		00532	R 501170	R AND (777
371		00533	R 100666	R JMS BUFFIL /SIDE2 DIAM
372		00534	R 220011	A LAC* 11
373		00535	R 441101	R ISZ MESBUF
374		00536	R 441101	R ISZ MESBUF
375		00537	R 100666	R JMS BUFFIL /HOLE SIZE
376		00540	R 100642	R JMS OUTPUT
377		00541	R 441151	R ISZ COUNT
378		00542	R 600515	R JMP LOOP2
379				/
380				/ EDGE CONNECTORS
381				/
382				.WRITE SLOT,2,MESS7,34
		00543	R 002004	A *G CAL+2*1000 SLOT&777
		00544	R 000011	A *G 11
		00545	R 001051	R *G MESS7
				*G .DEC
		00546	R 777736	A *G -34
383				.WAIT SLOT
		00547	R 000004	A *G CAL SLOT&777
		00550	R 000012	A *G 12
384		00551	R 777766	A LAW -12
385		00552	R 041151	R DAC COUNT
386		00553	R 441154	R LOOP3 ISZ NUMBA
387		00554	R 441101	R ISZ MESBUF
388		00555	R 441101	R ISZ MESBUF
389		00556	R 201154	R LAC NUMBA /CODE
390		00557	R 100666	R JMS BUFFIL
391		00560	R 201101	R LAC MESBUF
392		00561	R 723002	A AAC 2
393		00562	R 041101	R DAC MESBUF
394		00563	R 220011	A LAC* 11 /SPOT SIZE
395		00564	R 501170	R AND (777
396		00565	R 100666	R JMS BUFFIL
397		00566	R 201101	R LAC MESBUF
398		00567	R 723002	A AAC 2
399		00570	R 041101	R DAC MESBUF
400		00571	R 220011	A LAC* 11
401		00572	R 100666	R JMS BUFFIL /MOVEMENT
402		00573	R 100642	R JMS OUTPUT
403		00574	R 441151	R ISZ COUNT
404		00575	R 600553	R JMP LOOP3
405		00576	R 100642	R JMS OUTPUT
406				/
407				/ HOLES
408				/
409				.WRITE SLOT,2,MESS8,34
		00577	R 002004	A *G CAL+2*1000 SLOT&777
		00600	R 000011	A *G 11

PAGE	10	ASSET	SRC	LIST
		00601	R 001067 R *G	MESS8
			*G	.DEC
		00602	R 777736 A *G	-34
410				.WAIT SLOT
		00603	R 000004 A *G	CAL SLOT&777
		00604	R 000012 A *G	12
411		00605	R 777751 A	LAW -27
412		00606	R 041151 R	DAC COUNT
413		00607	R 441154 R	LOOP4 ISZ NUMBA
414		00610	R 441101 R	ISZ MESBUF
415		00611	R 441101 R	ISZ MESBUF
416		00612	R 201154 R	LAC NUMBA /CODE
417		00613	R 100666 R	JMS BUFFIL
418		00614	R 220011 A	LAC* 11
419		00615	R 220011 A	LAC* 11
420		00616	R 100666 R	JMS BUFFIL /HOLE SIZE
421		00617	R 100642 R	JMS OUTPUT
422		00620	R 441151 R	ISZ COUNT
423		00621	R 600607 R	JMP LOOP4
424				/
425				/
426				/
427				.CLOSE SLOT
		00622	R 000004 A *G	CAL SLOT&777
		00623	R 000006 A *G	6
428		00624	R 620345 R	JMP* LIST
429				/
430				/
431				/
432		00625	R 740040 A	BUFNIT XX
433		00626	R 201173 R	LAC (MESBUF+1
434		00627	R 061166 R	DAC* (10
435		00630	R 777761 A	LAW -17
436		00631	R 040130 R	DAC CNTR
437		00632	R 201174 R	LAC (201004
438		00633	R 060010 A	DAC* 10
439		00634	R 201175 R	LAC (20100
440		00635	R 060010 A	DAC* 10 /SPACES IN 5*7 ASCII
441		00636	R 440130 R	ISZ CNTR
442		00637	R 600632 R	JMP .-5
443		00640	R 141101 R	DZM MESBUF
444		00641	R 620625 R	JMP* BUFNIT
445				/
446				/
447				/
448				/
449				/
450		00642	R 740040 A	OUTPUT XX
451		00643	R 201101 R	LAC MESBUF
452		00644	R 341176 R	TAD (MESBUF
453		00645	R 723003 A	ARC 3
454		00646	R 040130 R	DAC CNTR
455		00647	R 201177 R	LAC (20032

PAGE	11	ASSET	SRC	LIST
456		00650	R 060130	R DAC CONTR /CARRIAGE RETURN
457		00651	R 201101	R LAC MESBUF
458		00652	R 723004	A AAC 4
459		00653	R 660710	A ALSS 10
460		00654	R 723002	A AAC 2
461		00655	R 041101	R DAC MESBUF
462				.WRITE SLOT,2,MESBUF,30
		00656	R 002004	A *G CAL+2*1000 SLOT&777
		00657	R 000011	A *G 11
		00660	R 001101	R *G MESBUF
				*G .DEC
		00661	R 777742	A *G -30
463				.WAIT SLOT
		00662	R 000004	A *G CAL SLOT&777
		00663	R 000012	A *G 12
464		00664	R 100625	R JMS BUFNIT
465		00665	R 620642	R JMP* OUTPUT
466				/
467				/
468				/
469				/
470				/
471		00666	R 740040	A BUFFIL XX
472		00667	R 652000	A LMQ
473		00670	R 201101	R LAC MESBUF
474		00671	R 723002	A AAC 2
475		00672	R 041101	R DAC MESBUF
476		00673	R 341176	R TAD (MESBUF
477		00674	R 041161	R DAC SCAN1#
478		00675	R 740030	A IAC
479		00676	R 041162	R DAC SCAN2#
480		00677	R 141153	R DZM FLAG#
481		00700	R 641002	A LUUP LACQ
482		00701	R 740200	A SZA
483		00702	R 600711	R JMP NON0
484		00703	R 201153	R LAC FLAG
485		00704	R 740200	A SZA
486		00705	R 620666	R JMP* BUFFIL /SOMETHING ALREADY IN BUFFER
487		00706	R 723060	A AAC 60
488		00707	R 100720	R JMS PACK
489		00710	R 620666	R JMP* BUFFIL
490				/
491				/
492		00711	R 441153	R NON0 ISZ FLAG
493		00712	R 754000	A CLL!CLA
494		00713	R 640323	A DIV
495		00714	R 000012	A 12
496		00715	R 723060	A AAC 60
497		00716	R 100720	R JMS PACK
498		00717	R 600700	R JMP LUUP
499				/
500				/
501				/

```

502 /
503 00720 R 740040 A PACK XX
504 00721 R 660713 A ALSS 13
505 00722 R 040130 R DAC CNTR
506 00723 R 641002 A LACQ
507 00724 R 041156 R DAC SAVE#
508 00725 R 221162 R LAC* SCAN2
509 00726 R 652000 A LMQ
510 00727 R 221161 R LAC* SCAN1
511 00730 R 744000 A CLL
512 00731 R 640507 A LRS 7
513 00732 R 340130 R TAD CNTR
514 00733 R 061161 R DAC* SCAN1
515 00734 R 641002 A LACQ
516 00735 R 061162 R DAC* SCAN2
517 00736 R 201156 R LAC SAVE
518 00737 R 652000 A LMQ
519 00740 R 620720 R JMP* PACK
520 /
521 /
522 00741 R 002002 A MESS1 2002; 0
    00742 R 000000 A
523 00743 R 202032 A .ASCII / ASSIGNMENT TABLE/<15>
    00744 R 351622 A
    00745 R 436351 A
    00746 R 542634 A
    00747 R 521012 A
    00750 R 440604 A
    00751 R 462121 A
    00752 R 500000 A
524 00753 R 002002 A MESS2 2002; 0
    00754 R 000000 A
525 00755 R 202071 A .ASCII / COPPER SPOT SIZE/<175>
    00756 R 750240 A
    00757 R 426444 A
    00760 R 051640 A
    00761 R 476504 A
    00762 R 051622 A
    00763 R 552137 A
    00764 R 500000 A
526 00765 R 002002 A MESS3 2002; 0
    00766 R 000000 A
527 00767 R 202472 A .ASCII / SPACE/<175>
    00770 R 040606 A
    00771 R 427720 A
    00772 R 000000 A
528 00773 R 002002 A MESS4 2002; 0
    00774 R 000000 A
529 00775 R 202412 A .ASCII / PTHOLE SIDE1 SIDE2 HOLE DIAMS./<15>
    00776 R 444236 A
    00777 R 462124 A
    01000 R 020100 A
    01001 R 516230 A

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	01002	R	442542	A	
	01003	R	201004	A	
	01004	R	051622	A	
	01005	R	422126	A	
	01006	R	220100	A	
	01007	R	202211	A	
	01010	R	746212	A	
	01011	R	202111	A	
	01012	R	140632	A	
	01013	R	515341	A	
	01014	R	500000	A	
530	01015	R	002002	A	MESS5 2002; 0
	01016	R	000000	A	
531	01017	R	202512	A	.ASCII / TRACK CODE WIDTH/<15>
	01020	R	240606	A	
	01021	R	455010	A	
	01022	R	347610	A	
	01023	R	425012	A	
	01024	R	744610	A	
	01025	R	522201	A	
	01026	R	500000	A	
532	01027	R	002002	A	MESS6 2002; 0
	01030	R	000000	A	
533	01031	R	202410	A	.ASCII / PAD CODE SIDE1 SIDE2 HOLE DIAMS./<15>
	01032	R	142100	A	
	01033	R	416370	A	
	01034	R	442500	A	
	01035	R	516230	A	
	01036	R	442542	A	
	01037	R	201004	A	
	01040	R	020246	A	
	01041	R	446110	A	
	01042	R	531100	A	
	01043	R	201011	A	
	01044	R	047630	A	
	01045	R	425010	A	
	01046	R	444602	A	
	01047	R	466465	A	
	01050	R	606400	A	
534	01051	R	002002	A	MESS7 2002; 0
	01052	R	000000	A	
535	01053	R	202410	A	.ASCII / PAD CODE SPOT SIZE MOVEMENT/<15>
	01054	R	142100	A	
	01055	R	416370	A	
	01056	R	442500	A	
	01057	R	516411	A	
	01060	R	752100	A	
	01061	R	516233	A	
	01062	R	242500	A	
	01063	R	466372	A	
	01064	R	642632	A	
	01065	R	426352	A	
	01066	R	406400	A	

PAGE	14	ASSET	SRC	LIST
536		01067	R 002002	A MESS8 2002; 0
		01070	R 000000	A
537		01071	R 202410	A .ASCII / PAD CODE HOLE SIZE/<15>
		01072	R 142100	A
		01073	R 416370	A
		01074	R 442500	A
		01075	R 442371	A
		01076	R 442500	A
		01077	R 516233	A
		01100	R 242432	A
538		01101	R	A MESBUF .BLOCK 50
539			000000	A .END
		01163	R 001163	E *E
		01164	R 001164	E *E
		01165	R 000133	R *L
		01166	R 000010	A *L
		01167	R 000011	A *L
		01170	R 000777	A *L
		01171	R 177777	A *L
		01172	R 000145	A *L
		01173	R 001102	R *L
		01174	R 201004	A *L
		01175	R 020100	A *L
		01176	R 001101	R *L
		01177	R 020032	A *L

PAGE 15 ASSET SRC LIST

ADDR	00131 R	ARAD	00007 R	ASSET	00000 R	BUFFIL	00666 R
BUFNIT	00625 R	CNTR	00130 R	CODE	00003 R	COUNT	01151 R
ENDRT	01152 R	EORAD	00012 R	FLAG	01153 R	HDIAM	00006 R
LIST	00345 R	LOOP	00025 R	LOOP1	00466 R	LOOP2	00515 R
LOOP3	00553 R	LOOP4	00607 R	LPA.	01163 E	LUUP	00700 R
MESBUF	01101 R	MESS1	00741 R	MESS2	00753 R	MESS3	00765 R
MESS4	00773 R	MESS5	01015 R	MESS6	01027 R	MESS7	01051 R
MESS8	01067 R	MODE	00010 R	NON0	00711 R	NOSET	00032 R
NUMBA	01154 R	OLSI1	00132 R	OLSI2	00133 R	OUTPUT	00642 R
PACK	00720 R	PADAD	00351 R	PADAS	00050 R	PDS	00145 R
ROOTLP	00114 R	ROUTAD	00011 R	RTPT	01155 R	SAVE	01156 R
SAVE1	01157 R	SCAN	01160 R	SCAN1	01161 R	SCAN2	01162 R
SETST	00106 R	SLOT	000004 A	TRK	00134 R	TRKAD	00350 R
WSID1	00004 R	WSID2	00005 R	.DA	01164 E		

ADDR	00131	37 96*	38	41	51	52	55	62	63	65
ARAD	00007	14*	23	35	49					
ASSET	00000	5	7*	32	45	76	85			
BUFFIL	00666	285	300	312	318	323	339	343	361	365
		371	375	390	396	401	417	420	471*	486
		489								
BUFNIT	00625	280	432*	444	464					
CNTR	00130	27	30	95*	436	441	454	456	505	513
CODE	00003	10*	36	47						
COUNT	01151	331	345	353	377	385	403	412	422	
ENDRT	01152	81	84							
EORAD	00012	17*	80							
FLAG	01153	480	484	492						
HDIAM	00006	13*	64							
LIST	00345	253	254	255*	428					
LOOP	00025	28*	31							
LOOP1	00466	335*	346							
LOOP2	00515	357*	378							
LOOP3	00553	386*	404							
LOOP4	00607	413*	423							
LPA.	01163	261	262							
LUUP	00700	481*	498							
MESBUF	01101	281	283	293	295	307	309	313	314	320
		321	336	337	340	341	358	359	367	368
		373	374	387	388	391	393	397	399	414
		415	433	443	451	452	457	461	462	473
		475	476	538*						
MESS1	00741	273	522*							
MESS2	00753	278	524*							
MESS3	00765	296	526*							
MESS4	00773	305	528*							
MESS5	01015	328	530*							
MESS6	01027	350	532*							
MESS7	01051	382	534*							
MESS8	01067	409	536*							
MODE	00010	15*	18							
NON0	00711	483	492*							
NOSET	00032	20	33*							
NUMBA	01154	332	335	338	356	357	360	386	389	413
		416								
OLSI1	00132	39	43	54	68	97*				
OLSI2	00133	58	74	98*						
OUTPUT	00642	286	301	324	344	376	402	405	421	450*
		465								
PACK	00720	488	497	503*	519					
PADAD	00351	259*	310	315	319	322	354			
PADAS	00050	34	47*							
PDS	00145	117*								
ROOTLP	00114	83*	94							
ROUTAD	00011	16*	77							
RTPT	01155	78	83	86	87	89	90	91		
SAVE	01156	507	517							
SAVE1	01157	363	366							

[illegible]